

## Section 1. Registration Information

### Source Identification

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Facility Name:	Yuma Main Street Treatment Plant
Parent Company #1 Name:	City of Yuma
Parent Company #2 Name:	Public Works Dept.

### Submission and Acceptance

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Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	17-Jun-2009
Postmark Date:	17-Jun-2009
Next Due Date:	17-Jun-2014
Completeness Check Date:	17-Jun-2009
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

### Facility Identification

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EPA Facility Identifier:	1000 0011 9114
Other EPA Systems Facility ID:	AZ0021563

### Dun and Bradstreet Numbers (DUNS)

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Facility DUNS:	78998184
Parent Company #1 DUNS:	78998184
Parent Company #2 DUNS:	

### Facility Location Address

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Street 1:	175 North Main Street
Street 2:	
City:	Yuma
State:	ARIZONA
ZIP:	85364
ZIP4:	
County:	YUMA

### Facility Latitude and Longitude

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Latitude (decimal):	32.404889
Longitude (decimal):	-114.284697
Lat/Long Method:	Global Positioning System (GPS) Carrier Phase Static Relative Positioning Technique
Lat/Long Description:	Plant Entrance (Personnel)
Horizontal Accuracy Measure:	2
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	

## Owner or Operator

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Operator Name:	Yuma Public Works Department
Operator Phone:	(928) 373-4500

## Mailing Address

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Operator Street 1:	155 W. 14th Street
Operator Street 2:	
Operator City:	Yuma
Operator State:	ARIZONA
Operator ZIP:	85364
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

## Name and title of person or position responsible for Part 68 (RMP) Implementation

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RMP Name of Person:	Bill Cox
RMP Title of Person or Position:	Treatment Plant Supervisor
RMP E-mail Address:	Bill.Cox@yumaaz.gov

## Emergency Contact

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Emergency Contact Name:	Bill Barbieri
Emergency Contact Title:	Chief Plant Operator
Emergency Contact Phone:	(928) 373-4567
Emergency Contact 24-Hour Phone:	(928) 783-7601
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	william.barbieri@yumaaz.gov

## Other Points of Contact

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Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	(928) 783-7601
Facility or Parent Company WWW Homepage Address:	www.yumaaz.gov

## Local Emergency Planning Committee

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LEPC:	Yuma County LEPC
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## Full Time Equivalent Employees

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Number of Full Time Employees (FTE) on Site:	32
FTE Claimed as CBI:	

## Covered By

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OSHA PSM :	Yes
EPCRA 302 :	
CAA Title V:	Yes

Air Operating Permit ID:

45198

## OSHA Ranking

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OSHA Star or Merit Ranking:

## Last Safety Inspection

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Last Safety Inspection (By an External Agency)

01-May-2008

Date:

Last Safety Inspection Performed By an External Agency:

Arizona Department of Environmental Quality

## Predictive Filing

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Did this RMP involve predictive filing?:

## Preparer Information

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Preparer Name:

Preparer Phone:

Preparer Street 1:

Preparer Street 2:

Preparer City:

Preparer State:

Preparer ZIP:

Preparer ZIP4:

Preparer Foreign State:

Preparer Foreign Country:

Preparer Foreign ZIP:

## Confidential Business Information (CBI)

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CBI Claimed:

Substantiation Provided:

Unsanitized RMP Provided:

## Reportable Accidents

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Reportable Accidents:

See Section 6. Accident History below to determine if there were any accidents reported for this RMP.

## Process Chemicals

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Process ID:

1000000702

Description:

drinking water disinfecti

Process Chemical ID:

1000000747

Program Level:

Program Level 3 process

Chemical Name:

Chlorine

CAS Number:

7782-50-5

Quantity (lbs):

24000

CBI Claimed:

Flammable/Toxic:

Toxic

## Process NAICS

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Process ID:	1000000702
Process NAICS ID:	1000000744
Program Level:	Program Level 3 process
NAICS Code:	22131
NAICS Description:	Water Supply and Irrigation Systems

## Section 2. Toxics: Worst Case

Toxic Worst ID: 1000000550

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Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

### Passive Mitigation Considered

Dikes:	Yes
Enclosures:	Yes
Berms:	Yes
Drains:	
Sumps:	
Other Type:	river channel, automatic air scrubbers chlorine is neutralized by caustic soda

## Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000000702

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Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Urban

### Passive Mitigation Considered

Dikes:	Yes
Enclosures:	Yes
Berms:	Yes
Drains:	
Sumps:	
Other Type:	river channel, automatic air scrubbers, chlorine is neutralized by caustic soda

### Active Mitigation Considered

Sprinkler System:	
Deluge System:	Yes
Water Curtain:	
Neutralization:	Yes
Excess Flow Valve:	Yes
Flares:	
Scrubbers:	Yes
Emergency Shutdown:	
Other Type:	

## **Section 4. Flammables: Worst Case**

No records found.

## **Section 5. Flammables: Alternative Release**

No records found.



## Section 6. Accident History

No records found.

## Section 7. Program Level 3

### Description

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Drinking water disinfection

### Program Level 3 Prevention Program Chemicals

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Prevention Program Chemical ID:	1000000456
Chemical Name:	Chlorine
Flammable/Toxic:	Toxic
CAS Number:	7782-50-5

Prevention Program Level 3 ID:	1000000429
NAICS Code:	22131

### Safety Information

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Safety Review Date (The date on which the safety information was last reviewed or revised):	02-Jun-2009
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### Process Hazard Analysis (PHA)

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PHA Completion Date (Date of last PHA or PHA update):	20-May-2009
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### The Technique Used

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What If: Checklist:	Yes
What If/Checklist: HAZOP: Failure Mode and Effects Analysis: Fault Tree Analysis: Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	30-Jun-2009

### Major Hazards Identified

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Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	Yes
Floods (Flood Plain):	

Tornado:  
Hurricanes:  
Other Major Hazard Identified:

## Process Controls in Use

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Vents:	Yes
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	Yes
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	Yes
Emergency Power:	Yes
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	Yes
Rupture Disks:	Yes
Excess Flow Device:	
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	fusible plugs

## Mitigation Systems in Use

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Sprinkler System:	
Dikes:	
Fire Walls:	Yes
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	Yes
Neutralization:	Yes
None:	
Other Mitigation System in Use:	

## Monitoring/Detection Systems in Use

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Process Area Detectors:	Yes
Perimeter Monitors:	Yes
None:	
Other Monitoring/Detection System in Use:	

## Changes Since Last PHA Update

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Reduction in Chemical Inventory:	Yes
Increase in Chemical Inventory:	
Change Process Parameters:	
Installation of Process Controls:	Yes
Installation of Process Detection Systems:	

Installation of Perimeter Monitoring Systems:  
Installation of Mitigation Systems:  
None Recommended:  
None:  
Other Changes Since Last PHA or PHA Update:

## Review of Operating Procedures

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Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 30-May-2009

## Training

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Training Revision Date (The date of the most recent review or revision of training programs): 02-Jun-2009

## The Type of Training Provided

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Classroom: Yes  
On the Job: Yes  
Other Training:

## The Type of Competency Testing Used

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Written Tests: Yes  
Oral Tests: Yes  
Demonstration:  
Observation: Yes  
Other Type of Competency Testing Used:

## Maintenance

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Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 20-May-2009

Equipment Inspection Date (The date of the most recent equipment inspection or test): 26-May-2009

Equipment Tested (Equipment most recently inspected or tested): chlorine scrubber, emergency generator motor

## Management of Change

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Change Management Date (The date of the most recent change that triggered management of change procedures): 01-Jan-1994

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 20-May-2009

## Pre-Startup Review

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Pre-Startup Review Date (The date of the most recent pre-startup review): 20-May-2009

## Compliance Audits

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Compliance Audit Date (The date of the most recent compliance audit): 20-May-2009

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 30-Jun-2009

## Incident Investigation

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Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

## Employee Participation Plans

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Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 21-May-2009

## Hot Work Permit Procedures

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Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 21-May-2009

## Contractor Safety Procedures

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Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 30-May-2009

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 30-May-2009

## Confidential Business Information

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CBI Claimed:

## Section 8. Program Level 2

## Section 9. Emergency Response

### Written Emergency Response (ER) Plan

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Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

### Emergency Response Review

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Review Date (Date of most recent review or update of facility's ER plan): 10-Nov-2008

### Emergency Response Training

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Training Date (Date of most recent review or update of facility's employees): 10-Mar-2009

### Local Agency

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Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Yuma LEPC/ Yuma Fire Dept

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (928) 782-1317

### Subject to

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OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120:

Clean Water Regulations at 40 CFR 112: Yes

RCRA Regulations at CFR 264, 265, and 279.52: Yes

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

## Executive Summary

The Risk Management Program and Plan are developed and reviewed by the City of Yuma Office of Risk Management and the Public Works Department Main Street Water Treatment Plant staff participants in accordance with the USEPA Risk Management Program Rule (40 CFR 68) for stationary sources with over 2,500 pounds of gaseous chlorine in process (level 3). This program and plan address storage, handling, transfer and use of chlorine gas one ton and 150 pound cylinders to minimize the potential for a chlorine release in a municipal water treatment facility. The Plan was developed in 1998-99 and revised in March - May 2004 by employee participation and incorporates OSHA's Process Safety Management Plan, Emergency Response Plan and Standard Operating Procedures; EPA EPCRA requirements; state Emergency Response Procedures and security measures under new Homeland Security guidelines.